PATENT COOPERATION TREATY

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REC'D 0 3 OCT 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILIMINO

PCT

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference HB-20863-PCT	FOR FURTHER ACT	ION	See Form PCT/IPEA/416	
International application No.	International filing date(da	y/month/year)	Priority date (day/month/year	r)
PCT/KR2004/000962	26 APRIL 2004 (26.	04.2004)	09 MAY 2003 (09.05.2003)	·
International Patent Classification (IPC	C) or national classification ar	nd IPC		
IPC7 H05H 1/18				
Applicant .				
HANYANG HAK WON CO.	, LTD. et al			٠.
This report is the international p Authority under Article 35 and t				ining
2 This REPORT consists of a tota	l of <u>sheets</u> ,	including this cover sl	neet.	
3. This report is also accompanied	by ANNEXES, comprising:		shoote of fellower	
	•		sheets, as follows: n amended and are the basis for	· this report
	ntaining rectifications author		(see Rule 70.16 and Section 6	
beyond the disc Supplemental E b. (sent to the Internation	losure in the international app lox. aal Bureau only) a total of (in	olication as filed, as in	asiders contain an amendment to dicated in item 4 of Box No. I seem of electronic carrier(s))	and the
	ting to Sequence Listing (see			
4. This report contains indications	relating to the following item			
Box No. I Basis of the	-			
Box No. II Priority	•			
· 🛏	olishment of opinion with reg	ard to novelty, invent	ive step and industrial applicabi	ility .
	nity of invention			
Box No V Reasoned	•	2) with regard to nove uch statement	lty, inventive step or industrial	applicability;
	ocuments cited .		•	
· <u>-</u> .	efects in the international app	lication	•	•
	bservations on the internation			
			•	•
Date of submission of the demand		Date of completion o	f this report	
07 DECEMBER 200	94 (07.12.2004)	31 AUGUS	Γ 2005 (31.08.2005)	
Name and mailing address of the IPE	A/KR	Authorized officer		ARIJE 1920
Korean Intellectual Prope 920 Dunsan-dong, Seo-g Republic of Korea	erty Office u, Daejeon 302-701,	SEO, Hawthor	ne ·· (
Facsimile No. 82-42-472-7140		Telephone No. 82-4	12-481-5670	A SILPAINED

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/000962

Bo	x No.	I Basis of the report		
1.		h regard to the language, this report is based on the internation	nal application in the lan	guage in which it was filed, unless
	ome	rwise indicated under this item.	i-t- the fallowing la	
	. 니	This report is based on translations from the original langua	_	nguage
		which is the language of a translation furnished for the purp	oses of:	
		international search (under Rules 12.3 and 23.1(b))	I- 12 A)	
		publication of the international application (under Ru international preliminary examination (under Rules 5.	•	
		international preliminary examination (under Rules 5	5.2 and/or 55.5)	•
2.	to the	regard to the elements of the international application, this re receiving Office in response to an invitation under Article 14 sed to this report):		
		the international application as originally filed/furnished		
		the description:		• •
	ш	pages		as originally filed/furnished
		pages* received	by this Authority on	
١.		pages* received	by this Authority on	
1	.Г.	the claims:		
٠.	Ш.	pages		as originally filed/furnished
::		pages*	as amended (togethe	r with any statment) under Article 19
			by this Authority on _	· · · · · · · · · · · · · · · · · · ·
		pages*received	by this Authority on	
		the drawings:		
	_	pages	<u>.</u>	as originally filed/furnished
l			by this Authority on	
		pages*received	by this Authority on	
		the sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and/or any related table(s) - see Supplemental sequence listing and sequence li	ental Box Relating to Se	quence Listing.
3.		The amendments have resulted in the cancellation of:		
		the description, pages	<u></u>	
		the claims, Nos.		
		the drawings, sheets		
ł		the sequence listing (specify):		
l		any table(s) related to sequence listing (specify):		•
4.		This report has been established as if (some of) the amendment made, since they have been considered to go beyond the disc (Rule 70.2(c)).	losure as filed, as indica	ted in the Supplemental Box
	If iten	4 applies, some or all of those sheets may be marked "supers	eded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/000962

Statement									
Statement							•		
Novelty (N)	Claims	1							YES
	Claims					·			NO
Inventive step (IS)	· Claims	1							·· YES
	Claims		-						NO
Industrial applicability (IA)	Claims	1		•	•		· *		YE
	Claims							-	NO

The following documents are referred:

D1: KR 2001-60200 A D2: US 6140773 A

1. D1 discloses a plasma generating device in which the working electrode is located near the gas inlet, and the ground electrodes near the emission hole.

D2 discloses a plasma source array in which several sources are mounted in parallel. Accordingly, the subject-matter of Claims 1-4 is considered to be novel (Article 33(2) PCT).

- 2. The closest state of the art appears to be represented by D1. Regarding the independent Claim 1, the technical concept advanced over D1 is the multiple dielectric walls. Said walls separate the cavity into several channels, and make it possible for the gas to flow through said channels. Neither D1 nor D2 suggests those such channels for gas flow. Thus, Claim 1 involves an inventive step and meets the requirement of Article 33(3) PCT.
- 3. The industrial applicability of said subject-matters is self evident.